

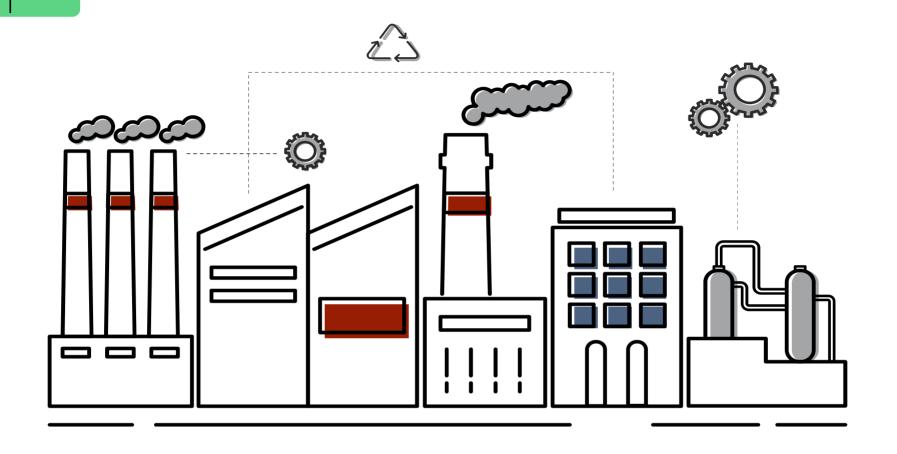


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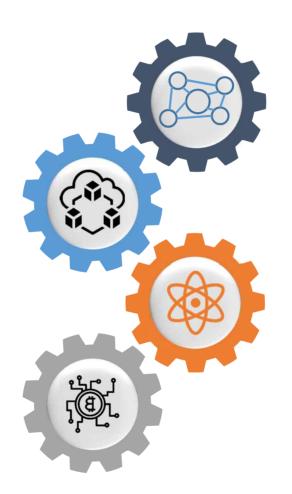
Industry 4.0

Big data

Big data represents the information a ssets characterized by such a high vo lume, velocity and variety to require s pecific technology and analytical met hods for its transformation into value

Block chain

block chain,is a growing list of record s, called blocks, which are linked usin g cryptography.



IoT

The Internet of things (IoT) is the net work of physical devices, vehicles, ho me appliances, and other items embe dded with electronics, software, sens ors, actuators, and connectivity which enables these things to connect, coll ect and exchange data.

Convergence

The convergence of different ideas, g roups, or societies is the process by which they stop being different and become more similar.

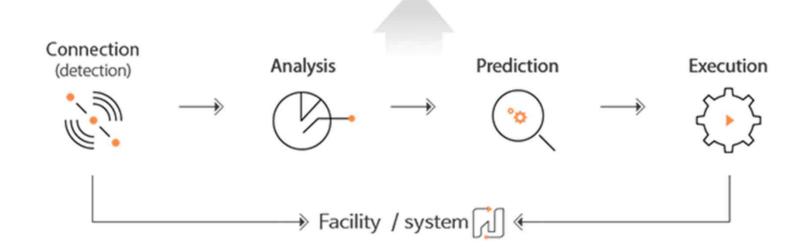
Preemptive market response

Optimized working rate

Save cost for failure

Save cost

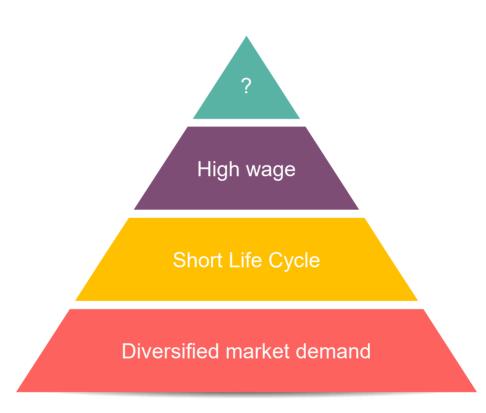
real-time management based on the data and predictability



Material input prediction Production capacity maximization Facility failure prediction

Flexible production system

What is the problem?



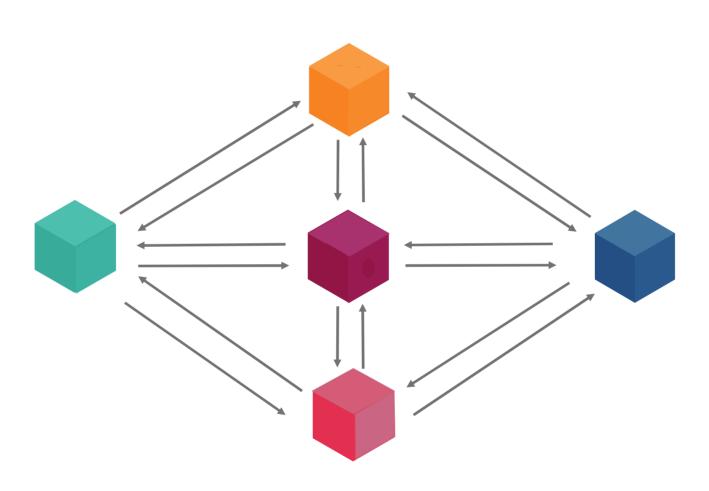
Trust Issue







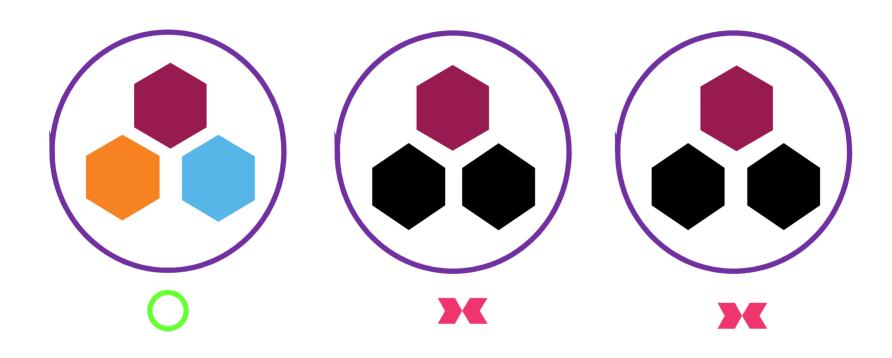
practical byzantine fault tolerance



Federated Byzantine Agreement

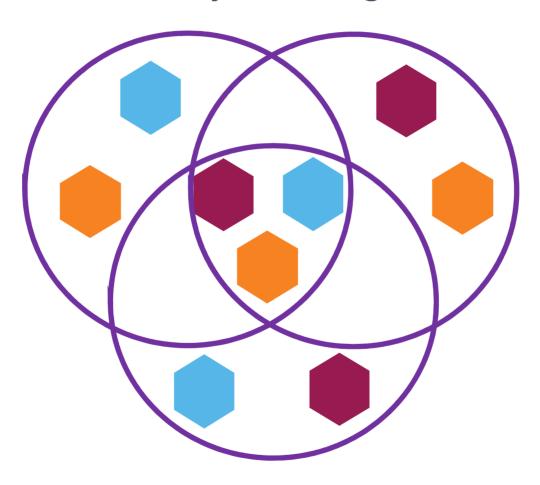


Federated Byzantine Agreement



A Quorum slice.

Federated Byzantine Agreement



A Quorum Intersections.

What is Secure?

Malicious code

Malicia us code is unwanted files or programs that can cause harm to a computer or compromise data stored on a computer. Various classifications of malicious code include viruses, worms, and Trojan horses



Vulnerability

a perability is a weakness which can be expited by a Threat Actor, such as an attacker, to perform unauthorized actions within a computer system.



Unauthorized

Unauth ized access is when someone gains access website, program, server, service, or other system using someone else's account or other methods



Computer security, cybersecurity, or IT security is the protection of computer systems from theft or damage to their hardware, software or electronic data, as well as from disruption or misdirection of the services they provide.

The field is of growing importance due to increasing reliance on computer systems, the Internet and wireless networks such as Bluetooth and Wi-Fi, and due to the growth of "smart" devices, including smartphones, televisions and the various tiny devices that constitute the Internet of Things. Due to its complexity, both in terms of politics and technology, it is also one of the major challenges of the contemporary world.

